

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows. A detailed listing of all claims that are, or were, in the application is presented below. Changes in the currently amended claims are shown by strikethrough (for deleted matter) and underlining for added matter.

Claims:

1. (Currently Amended) A fabric-based sensor for transmitting electrical impulses or other vital signs comprising:

(a) a knitted or woven fully-conductive fabric ~~of~~ including one or more ~~integrated~~ individually conductive fibers integrated therein by the process of knitting or weaving the fabric, each conductive fiber being individually conductive prior to incorporation into the fabric in the absence of a conductive coating applied to the fabric or to the fibers; ~~and~~

(b) an electrical lead for connection to a connector, the electrical lead being formed from ~~comprising~~ one of the integrated individually conductive fibers; and

(c) a connector connected to the electrical lead.

2. (Currently Amended) The fabric-based sensor of claim 1, further comprising a conductive paste between the electrical lead fiber and the connector.

3. (Previously Amended) The fabric-based sensor of claim 1, wherein the individually conductive fibers of the fabric are knitted.

4. (Previously Amended) The fabric-based sensor of claim 2, wherein the individually conductive fibers of the fabric are woven.

5. (Previously Amended) The fabric-based sensor of claim 1, wherein the connector is a snap connector.

6. (Previously Amended) The fabric-based sensor of claim 2, wherein the connector is a snap connector.

7. (Original) A garment comprising at least one fabric-based sensor of claim 1.

8. (Original) A garment comprising at least one fabric-based sensor of claim 2.

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Cont.
9. (Previously Amended) A method for monitoring the vital signs or other electrical impulses of a subject comprising applying the fabric-based sensor of claim 1 to the subject and connecting the connector to a monitor.

10. (Previously Amended) A method for monitoring the vital signs or other electrical impulses of a subject comprising applying the fabric-based sensor of claim 2 to the subject and connecting the connector to a monitor.

11. (Previously Amended) A method for providing an electrical impulse to a subject comprising applying the fabric-based sensor of claim 1 to the subject, connecting the connector to an impulse-delivering device, and delivering the impulse through the sensor.

12. (Previously Amended) A method for providing an electrical impulse to a subject comprising applying the fabric-based sensor of claim 2 to the subject, connecting the connector to an impulse-delivering device, and delivering the impulse through the sensor.

13. (Currently Amended) A method for monitoring the vital signs or other electrical impulses of a subject comprising:

applying the fabric-based sensor of claim 1 to the subject; and

connecting the connector to a ~~sensate liner~~ wearable motherboard, wherein the ~~sensate liner~~ wearable motherboard is a fabric comprising: a comfort component serving as the base of the fabric; and a sensing component integrated within said comfort component to form the fabric, wherein the sensing component is selected from the group consisting of, individually or in any combination, a penetration detection component and an insulated electrical conductive component comprising one or more individually insulated conductive fibers; and gathering vital signs or electrical impulse data from the sensing component.

(2)
14. (Currently Amended) A fabric-based sensor for transmitting electrical impulses or other vital signs comprising:

(a) a knitted or woven conductive fabric ~~of including~~ one or more integrated individually conductive fibers and non-conductive fibers integrated therein by the process of knitting or weaving the fabric, each conductive fiber being individually conductive prior to incorporation into the fabric in the absence of a conductive coating applied to the fabric or to the fibers;

(b) an electrical lead for connection to a connector, the electrical lead being formed from comprising one of the integrated individually conductive fibers; and

(c) a connector connected to the electrical lead.

15. (Currently Amended) The fabric-based sensor of claim 14, further comprising a conductive paste between the individually conductive fiber and the connector.

16. (Previously Added) The fabric-based sensor of claim 14, wherein the individually conductive fibers of the fabric are knitted.

17. (Previously Added) The fabric-based sensor of claim 15, wherein the individually conductive fibers of the fabric are knitted.

18. (Previously Added) The fabric-based sensor of claim 14, wherein the individually conductive fibers of the fabric are woven.

19. (Previously Added) The fabric-based sensor of claim 15, wherein the individually conductive fibers of the fabric are woven.

20. (Previously Amended) The fabric-based sensor of claim 14, wherein the connector is a snap connector.

21. (Previously Amended) The fabric-based sensor of claim 15, wherein the connector is a snap connector.

22. (Previously Added) A garment comprising at least one fabric-based sensor of claim 14.

23. (Previously Added) A garment comprising at least one fabric-based sensor of claim 15.

24. (Previously Amended) A method for monitoring the vital signs or other electrical impulses of a subject comprising applying the fabric-based sensor of claim 14 to the subject and connecting the connector to a monitor.

25. (Previously Amended) A method for monitoring the vital signs or other electrical impulses of a subject comprising applying the fabric-based sensor of claim 15 to the subject and connecting the connector to a monitor.

26. (Currently Amended) A method for monitoring the vital signs or other electrical impulses of a subject comprising:

applying the fabric-based sensor of claim 14 to the subject; and
connecting the connector to a ~~sensate liner~~ wearable motherboard, wherein the ~~sensate liner~~ wearable motherboard is a fabric comprising: a comfort component serving as the base of the fabric; and a sensing component integrated within said comfort component to form the fabric, wherein the sensing component is selected from the group consisting of, individually or in any combination, a penetration detection component and an insulated electrical conductive component comprising one or more individually insulated conductive fibers; and gathering vital signs or electrical impulse data from the sensing component.

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27. (Currently Amended) A method for monitoring the vital signs or other electrical impulses of a subject comprising:

applying the fabric-based sensor of claim 15 to the subject; and
connecting the connector to a ~~sensate liner~~ wearable motherboard, wherein the ~~sensate liner~~ wearable motherboard is a fabric comprising: a comfort component serving as the base of the fabric; and a sensing component integrated within said comfort component to form the fabric, wherein the sensing component is selected from the group consisting of, individually or in any combination, a penetration detection component and an insulated electrical conductive component comprising one or more individually insulated conductive fibers; and gathering vital signs or electrical impulses data from the sensing component.

28. (Previously Amended) A method for delivering an electrical impulse to a subject comprising applying the fabric-based sensor of claim 1 to the subject, connecting the connector to an impulse-delivering device, and delivering the impulse through the fabric-based sensor.

29. (Previously Amended) A method for delivering an electrical impulse to a subject comprising applying the fabric-based sensor of claim 2 to the subject, connecting the connector to an impulse-delivering device, and delivering the impulse through the fabric-based sensor.

30. (Previously Amended) A method for delivering an electrical impulse to a subject comprising applying the fabric-based sensor of claim 14 to the subject, connecting the connector to an impulse-delivering device, and delivering the impulse through the fabric-based sensor.

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cont. 31. (Previously Amended) A method for delivering an electrical impulse to a subject comprising applying the fabric-based sensor of claim 15 to the subject, connecting the connector to an impulse-delivering device, and delivering the impulse through the fabric-based sensor.

32. (Previously Added) The fabric-based sensor of claim 2, wherein the individually conductive fibers of the fabric are knitted.

33. (Previously Added) The fabric-based sensor of claim 1, wherein the individually conductive fibers of fabric are woven.
